

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED	
Final			5. FUNDING NUMBERS
4. TITLE AND SUBTITLE			6. AUTHOR(S)
Gordon Research Conference on Ion-Containing Polymers			Dr. Benjamin Chu
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)			8. PERFORMING ORGANIZATION REPORT NUMBER
Gordon Research Conferences University of Rhode Island P.O. Box 984 West Kingston, RI 02892-0984			DAAH04-95-1-0410
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING / MONITORING AGENCY REPORT NUMBER
U.S. Army Research Office P. O. Box 12211 Research Triangle Park, NC 27709-2211			ARO 34723.1-CH-CF
11. SUPPLEMENTARY NOTES The view, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy, or decision, unless so designated by other documentation.			
12a. DISTRIBUTION / AVAILABILITY STATEMENT		12b. DISTRIBUTION CODE	
Approved for public release; distribution unlimited.			
13. ABSTRACT (Maximum 200 words)			
<p>The program for the conference covers a broad range of topics, including polyions and block ionomers in solution, self-assembly and pattern recognition, electrophoresis and polyelectrolyte gels, inorganic mesophases and nano-composites, ionomer theory and block ionomer surfaces, ionomer phase behavior and microstructures, dendrimers and graft copolymers. Four lectures were set aside to cover the recent advances in fuel cells with emphasis on PEM fuel cells.</p> <p>New results were presented on polyelectrolyte and ionomer experiments which provided further development on theory related to charged polymer structure, conformation and self-assembly behavior. The advances in creating inorganic nano-structured materials look particularly interesting and promising. The sessions on fuel cells were well received.</p> <p style="text-align: right;">EX-1 QUALITY ENHANCED 6</p>			
14. SUBJECT TERMS			15. NUMBER OF PAGES
Polyelectrolytes, Ionomers, Nano-composites, Microstructures, Fuel cells			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT UL

FINAL REPORT

Gordon Conference on Ion-Containing Polymers

The Gordon Conference on "Ion-Containing Polymers" was held July 9-14, 1995 at Colby-Sawyer College (South) in New London, New Hampshire. The conference had 100 participants with more than one quarter of the participants coming from foreign countries. There was a healthy mixture of scientists from universities (~60%), national laboratories (~10%) and private industries (~30%), including graduate students/post-doctorates (~1/4), young scientists and established scientists.

The program for the conference covers a broad range of topics, including polyions and block ionomers in solution, self-assembly and pattern recognition, electrophoresis and polyelectrolyte gels, inorganic mesophases and nano-composites, ionomer theory and block ionomer surfaces, ionomer phase behavior and microstructures, dendrimers and graft copolymers. Four lectures were set aside to cover the recent advances in fuel cells with emphasis on PEM fuel cells. There were twenty speakers and nine discussion leaders in order to provide ample time for discussions and active participation by the conferees. Two separate poster sessions with a total of 45 posters were held, one each on Tuesday and Wednesday evenings, after the evening lecture. Many conferees like the quality and information content of the posters.

New results were presented on polyelectrolyte and ionomer experiments which provided further development on theory related to charged polymer structure, conformation, and self-assembly behavior. The advances in creating inorganic nano-structured materials look particularly interesting and promising. The sessions on fuel cells were well received.

Many conferees expressed their satisfaction and personally congratulated the Chairman on the success of this conference.

The support by the U.S. Army Research Office has been gratefully acknowledged. I certify that funds provided by the Army Research Office under Grant DAAH04-95-1-0410 were expended in accordance with the provisions of the grant and that required scientific reports have been delivered to the Army Research Office.

Distribution /	
Availability Codes	
Dist	Avail and / or Special
A-1	

Benjamin Chu, Chairman
 Department of Chemistry
 State University of New York
 Stony Brook, NY 11794-3400
 Tel: (516) 632-7928
 FAX: (516) 632-7960

Charles Martin, Vice Chairman
 Department of Chemistry
 Clemson University
 Clemson, SC 29634-1905
 Tel: (803) 656-3065
 FAX: (803) 656-6613

PROGRAM

Day, Date	Speaker & Title	Discussion Leader
MONDAY 7/10/95	A.M. Polyions and Block Ionomers in Solution Professor Manfred Schmidt, Universitat Bayreuth "Interparticle Interaction and Molecular Conformation of Polyions in Solution" Professor Chi Wu, The Chinese University of Hong Kong "Light-Scattering Study of Complexation Behavior of Block Ionomers" Self-Assembly & Pattern Recognition Professor M. Muthukumar, University of Massachusetts "Self-Assembly and Pattern Recognition of Polyelectrolytes" Posters for Poster Session I in position on Monday afternoon (by 2:30 pm).	Dr. Eric Amis NIST
	P.M. Electrophoresis and Polyelectrolyte Gel Professor Gilbert Weill, CNRS et Universite L. Pasteur "The Effective Charge of Polyelectrolytes in Electrophoresis" Professor Dietrich Woermann, University of Koln "Transport Properties and Structure of a Polyelectrolyte Gel"	Prof. Robert K. Prud'homme Princeton University
TUESDAY 7/11/95	A.M. Inorganic Mesophases and Nanocomposites Professor Kenneth Mauritz, University of Southern Mississippi "Ionomer-Based Organic and Inorganic Nanocomposites" Professor Bradley F. Chmelka, University of California, Santa Barbara "Ionic Interactions in Surfactant-Inorganic Mesophases" Ionomer Theory Professor Alexei Khokhlov, Moscow State University "Statistical Theory of Ionomers: Superstrong Segregation and Disc-Like Multiplets"	Dr. Raymond Farinato Cytec Industries
	P.M. Block Ionomer Surfaces Professor Miriam Rafailovich, State University of New York "Ionomeric Polymers at Interfaces" Poster Session I (with a very short oral presentation) Dr. Charles Martin	Prof. Richard Register Princeton University

WEDNESDAY
7/12/95

**A.M. Ionomer Phase Behavior
and Microstructures**

**Dr. Claudine Williams
CNRS - Lure**

Professor Robert Weiss, University of Connecticut
"Phase Behavior of Ionomer/Polymer Blends"

Dr. Dan Q. Wu, DuPont
"Synchrotron SAXS Studies of NAFION Morphology"

Dr. Jaan Noolandi, Xerox Research Centre of Canada
"Ordered Microphases in Solid State Ionomers"

(Remove Posters for Session I immediately after lunch)
Posters for Poster Session II in position (by 2:30 pm)

P.M. Dendrimers

**Prof. Masanori Hara
Rutgers University**

Dr. Donald A. Tomalia, Michigan Molecular Institute
"An Overview of Starburst® Dendrimer Technology and Applications"

Poster Session II

Dr. Charles Martin

THURSDAY
7/13/95

A.M. Graft Copolymers and Fuel Cells I

**Prof. Stuart Cooper
University of Delaware**

Dr. Dennis G. Peiffer, Exxon Research & Engineering Company
"Synthesis and Behavior of Graft Copolymers formed via Conventional
Methods as well as through Ionic Interactions"

Dr. Keith R. Plowman, Dow USA
"PEM Fuel Cell Systems: The Effect of Membrane Properties on Performance"

Professor Robert F. Savinell, Case Western Reserve University
"Direct Methanol PEM Fuel Cells"

**P.M. Architecture and Morphological
Diversity**

**Prof. William M. Risen, Jr.
Brown University**

Professor Adi Eisenberg, McGill University
"Architectural and Morphological Diversity in Ion-Containing Polymers"

**Michael A. Mabe, Editorial Director, Materials Science
Elsevier Publishing Company, Oxford**
"The Scientific Journal, Its Past, Present and Future"

FRIDAY
7/14/95

A.M. Fuel Cells II

Dr. Charles Martin

Professor Howard L. Yeager, University of Calgary
"Conductivity, Percolation Threshold, and Dielectric Properties of Hydrocarbon and
Perfluorinated Ionomers"

Professor Darryl D. DesMarteau, Clemson University
"Synthesis and Properties of Novel Perfluorinated Ionomers Containing Sulfonimide Acid
Functions"

Conference Registration List

ION-CONTAINING POLYMERS

10-Jul-95

1086818	PIERRE ALDEBERT DRFMC/SESAM 17, RUE DES MARTYRS GRENOBLE, CEDEX 9 38054 FRANCE	Phone: 33-76853833 Fax: 33-76885090 Email: Room: R12 Participation: S
2001327	ERIC J AMIS NIST POLYMERS, 224/B210 GAITHERSBURG, MD 20899	Phone: 301-975-6681 Fax: 301-926-8012 Email: AMIS@MICF.NIST.GOV Room: R12 Participation: D
1001649	CHRIS ANDREOLA ALLIED SIGNAL RAND T CRL-200, ALLIED SIGNAL, INC P O BOX 1021 MORRISTOWN, NJ 07962	Phone: 201-455-3449 Fax: 201-455-5295 Email: Room: OFF Participation: A
1091347	HANY M AZIZ MCMASTER UNIVERSITY DEPT OF MATERIALS SCIENCE & ENGINEER 1280 MAIN STREET WEST HAMILTON, ONTARIO L8V 5C2 CANADA	Phone: 905 525 9140X Fax: 905 528 9295 Email: Room: C3165 Participation: P
1003005	WILLIAM S BAHARY UNILEVER RESEARCH 45 RIVER ROAD EDGEWATER, NJ 07020	Phone: 201 943 7100 Fax: 201 943 5653 Email: Room: C3265 Participation: A
1088851	DAVID B BAILEY EASTMAN KODAK CO 1999 LAKE AVE ROCHESTER, NY 14650-2116	Phone: 716 477 8449 Fax: Email: Room: R34 Participation: A
1088832	LAJOS BALOGH UNIVERSITY OF MASSACHUSETTS LOWELL DEPT OF CHEMISTRY ONE UNIVERSITY AVE LOWELL, MA 01854	Phone: 508-934-3828 Fax: 508-934-3013 Email: Room: OFF Participation: P

1004179	DANIEL W BAUGH UNIVERSITY OF SOUTHERN MISSISSIPPI SS BOX 10076 DEPT. OF POLYMER SCIENCE HATTIESBURG, MS 39406	Phone: 601-266-5055 Fax: 601-266-5504 Email: DWBAUGH@WHALE.ST.USM.EDU Room: C3166 Participation: A
1091349	C E BECZE MCMASTER UNIVERSITY DEPT MATERIALS SCIENCE HAMILTON, ONTARIO L8S 4L7 CANADA	Phone: 905 525 9140X Fax: 905 528 9295 Email: Room: C3173 Participation: P
1004780	MICHELLE BELLINGER SPALDING SPORTS WORLDWIDE 425 MEADOW STREET, PO BOX 901 CHICOPEE, MA 01021-0901	Phone: 413 536 1200 Fax: 413 536 4831 Email: Room: P3095 Participation: A
1092106	SAUMITRA BHARGAVA UNIV OF DELAWARE CHEM ENG DEPT NEWARK, DE 19716	Phone: 302 831 2347 Fax: 302 831 1048 Email: BHARGAVA@CHE.UDEL.EDU Room: C3173 Participation: P
1006113	AMIT BISWAS DUPONT EXPERIMENTAL STATION P.O. BOX 80536 WILMINGTON, DE 19880-0356	Phone: 302-695-3603 Fax: 302-695-8207 Email: BISWASA@ESVAX.DNET.DUPONT. Room: OFF Participation: A
1006560	ALEXANDER BLUMSTEIN UNIVERSITY OF MASS. LOWELL DEPT. OF CHEMISTRY ONE UNIVERSITY AVENUE LOWELL, MA 01854	Phone: 508-934-3685 Fax: 508-934-3013 Email: Room: C3373 Participation: A
1090129	WARREN H BUCK DUPONT FLUOROPRODUCTS EXPERIMENTAL STATION P.O. BOX 80293 WILMINGTON, DE 19880-0293	Phone: 302-695-4436 Fax: 302-695-8617 Email: WHBUCK@A1.ESVAX.UMC.DUPON Room: C3174 Participation: A
1009895	DONALD A CAMERON UNIV OF FLORIDA DEPT OF CHEMISTRY BOX 117200 GAINESVILLE, FL 32611-7200	Phone: 904-392-2000 Fax: 904 392 9741 Email: DACAME@UFCC.UFL.EDU Room: C3175 Participation: P

1091881	KAUSHIK CHAKRABARTY UNIV OF CONN, INSTITUTE OF MATERIALS SCIENCE, POLYMER SCIENCE PROGRAM BOX U-136, 97 NORTH EAGLEVILL ROAD STORRS, CT 06269	Phone: 203 486 2290 Fax: 203 486 4745 Email: KAC94002@UCONVM.UCONN.ED Room: R34 Participation: P
1012301	BRAD F CHMELKA UNIVERSITY OF CALIFORNIA - SANTA BARB DEPARTMENT OF CHEMICAL ENGINEERING ENGINEERING II SANTA BARBARA, CA 93106-5080	Phone: 805-893-3673 Fax: 805 893-4731 Email: BRADC@ENGINEERING.UCSB.ED Room: R12 Participation: S
1012556	BENJAMIN CHU STATE UNIV. OF NEW YORK AT STONY BRO CHEMISTRY DEPARTMENT STONY BROOK, NY 11794-3400	Phone: 516-632-7928 Fax: 516-632-7960 Email: BCHU@SBCCMAIL.BITNET Room: R13 Participation: C
1013379	RALPH H COLBY EASTMAN KODAK COMPANY IMAGING RESEARCH & ADVANCED DEVELO ROCHESTER, NY 14650-2109	Phone: 716-477-5031 Fax: 716 477 6498 Email: RHC@PAS.ROCHESTER.EDU Room: M3180 Participation: A
1013978	STUART L COOPER UNIVERSITY OF DELAWARE 135 DUPONT HALL COLLEGE OF ENGINEERING NEWARK, DE 19716	Phone: 302-831-8017 Fax: 302-831-6751 Email: STUART.COOPER@MVS.UDEL.ED Room: M3180 Participation: D
1092152	STEPHEN V DAVIS UNIV OF SOUTHERN MISSISSIPPI DEPT OF POLYMER SCIENCE BOX 10076 HATTIESBURG, MS 39406	Phone: 601 266 4000 Fax: 601 266 5504 Email: SVDAVIS@WHOLE.ST.USM.EDU Room: C3166 Participation: P
1086819	DARRYL D DESMARTEAU CLEMSON UNIVERSITY DEPARTMENT OF CHEMISTRY BOX 341905 CLEMSON, SC 29634-1905	Phone: 803-656-4705 Fax: 803-656-6613 Email: FLUORINE@CLEMSON.CLEMSON. Room: R13 Participation: S
1019393	A EISENBERG MCGILL UNIVERSITY, CHEMISTRY 801 SHERBROOKE ST W MONTREAL, QUE H3A 2K6 CANADA	Phone: 514-398-6934 Fax: 514-398-3797 Email: Room: M3382 Participation: S

1020127	FLORENCE ESCHBACH MOTOROLA INC WORLDWIDE ENERGY PRODUCTS DIVISION 8000 WEST SUNRISE BOULEVARD, ROOM 21 FORT LAUDERDALE, FL 33322	Phone: 305-475-6345 Fax: 305-475-5020 Email: EFE002@AMOUL.MOT.COM Room: P3096 Participation: A
1020729	RAY S FARINATO CYTEC INDUSTRIES 1937 W. MAIN STREET STAMFORD, CT 06904	Phone: 203-321-2556 Fax: 203-321-2982 Email: FARINATO@ST.CYTEC.COM Room: R17 Participation: D
1091149	DIETER FAUL BASF AG DEPARTMENT ZKS/A-B1 LUDWIGSHAFEN, 67056 GERMANY	Phone: 0621-60-21796 Fax: 0621-60-20313 Email: Room: M3181 Participation: A
9590003	GEORGE A FLOUDAS FOUNDATION FOR RESEARCH & TECHNOLOGY HELAS FORTH HERAKLION, GREECE	Phone: 30-81-391465 Fax: 30-81-391305 Email: Room: M3383 Participation: P
1022151	JOHN J FONTANELLA U.S. NAVAL ACADEMY PHYSICS DEPT. ANNAPOLIS, MD 21402-5026	Phone: 410-293-5507 Fax: 410 293 3729 Email: JJF@CHARLESTON.NADN.NAVY.MIL Room: C3267 Participation: P
1023476	BARBARA GABRYS BRUNEL UNIVERSITY DEPT. OF PHYSICS UXBRIDGE, MIDDLESEX UB8 3PH UK	Phone: 44 1895 203199 Fax: 44 1895 272391 Email: BJJ@ISISE.RC.AC.UK Room: P3296 Participation: P
1024699	CONSTANCE L GETTINGE NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY POLYMER BLENDS DIV BUILDING 224, ROOM B210 GAIITHERSBURG, MD 20899	Phone: 301-975-6783 Fax: 301-926-8012 Email: CLGETT@ENH.NIST.GOV Room: P3093 Participation: A
1091877	YACOB GHEBREMESKEL UNIV OF CONNECTICUT BOX U-136, IMS STORRS, CT 06269	Phone: 203 486 5253 Fax: 203 486 4745 Email: GHEBREM@UCONNVM.UCONN.EDU Room: M3276 Participation: P

3026215	SHIMSHON GOTTESFELD LOS ALAMOS NATIONAL LABORATORY MAIL STOP D429 LOS ALAMOS, NM 87545	Phone: 505-667-0853 Fax: 505-665-4292 Email: gottesfeld@lanl.gov Room: C3274 Participation: A
1028821	MASANORI HARA RUTGERS UNIVERSITY DEPT. OF MECHANICS & MATERIALS SCIEN PISCATAWAY, NJ 08855-0909	Phone: 908-445-2245 Fax: 908-445-5977 Email: Room: R17 Participation: D
2035456	JACQUES G JOOSTEN DSM RESEARCH P.O. BOX 18 GELEEN, 6160 MD THE NETHERLAN	Phone: 31-46-761647 Fax: 31-46-761200 Email: Room: M3381 Participation: A
1037518	ALEXEI R KHOKHLOV MOSCOW STATE UNIVERSITY PHYSICS DEPT. MOSCOW, 117234 RUSSIA	Phone: 7095-1357910 Fax: 7095-9392988 Email: KHOKHLOV@POLLY.PHYS.MSU.SU Room: R17 Participation: S
1037719	JOON-SEOP KIM MCGILL UNIVERSITY DEPT. OF CHEMISTRY 801 SHERBROOKE ST. WEST MONTREAL, H3A 2K6 QUEBEC, CANAD	Phone: 514-398-6924 Fax: 514 398 3797 Email: KIM@OMC.LAN.MCGILL.CA Room: C3374 Participation: A
1093015	DOUGLAS J KISEROW ARMY RESEARCH OFFICE 4300 SO. MIAMI BLVD. RTP, NC 27709 2211	Phone: 919 549 4213 Fax: 919 549 4310 Email: KISEROW@ARO-EMH1.ARMY.MIL Room: C3365 Participation: A
1089897	ZHIXIN LI SUNY AT STONY BROOK DEPT. OF MATERIALS SCIENCE & ENGIN. STONY BROOK, NY 11784	Phone: 516-632-8483 Fax: 516-632-8052 Email: ZLI@CCMAIL.SUNYSB.EDU Room: Participation: P
1092400	BIN LIN UNIVERSITY OF MINNESOTA DEPT OF PHYSICS MINNEAPOLIS, MN 55455	Phone: 612-624-4195 Fax: 612-624-4578 Email: LINB@MSI.UMN.EDU Room: M3279 Participation: P

1043976	MORTON LITT CASE WESTERN RESERVE UNIV. MACROMOLECULAR SCIENCE DEPT CUYAHOGA CLEVELAND, OH 44106	Phone: 216-368-4174 Fax: 216-368-4202 Email: MHL2@PO.CWRU.ODU Room: M3178 Participation: P
1044023	CHU-HENG LIU EXXON RESEARCH & ENGINEERING ER&E, ROUTE 22 EAST ANNANDALE, NJ 08801	Phone: 908-730-2693 Fax: 908-730-3232 Email: CHEIU@ERENJ.COM Room: M3280 Participation: P
2044256	ROBERT Y LOCHHEAD UNIVERSITY OF SOUTHERN MISSISSIPPI DEPT. OF POLYMER SCIENCE SOUTHERN STATION BOX 10076 HATTIESBURG, MS 39406-0076	Phone: 601-266-5482 Fax: 601-266-5504 Email: LOCHHEAD@WHALE.ST.USM.EDU Room: C3268 Participation: A
1088612	FRANK J LUCZAK INTERNATIONAL FUEL CELLS 195 GOVENOR'S HIGHWAY SOUTH WINDSOR, CT 06074	Phone: 203-727-2431 Fax: 203-727-2419 Email: Room: M3281 Participation: A
1092816	MICHAEL A MABE ELSEVIER SCIENCE LTD LANGFORD LANE KIDLINGTON OXFORD, OXON OX5 1GB UK	Phone: 44 1865 843590 Fax: 44 1865 843982 Email: M.MABE@ELSEVIER.CO.UK Room: M3281 Participation: S
1045564	WILLIAM J MACKNIGHT UNIVERSITY OF MASSACHUSETTS POLYMER SCIENCE & ENGINEERING LEDERLE GRADUATE RESEARCH CENTER AMHERST, MA 01003	Phone: 413-545-0433 Fax: 413-545-0082 Email: Room: R18 Participation: D
1046269	SUDHIR MANI UNIVERSITY OF CONNECTICUT DEPARTMENT OF CHEMICAL ENGINEERING U-139, 191 AUDITORIUM ROAD STORRS, CT 06269-3139	Phone: 203-486-2290 Fax: 203-486-4745 Email: SUM94001@UCONNVM.UCONN.ED Room: M3276 Participation: P
1086795	CHARLES MARTIN DOW CHEMICAL COMPANY TEXAS OPERATIONS BUILDING B2825 FREEPORT, TX 77541	Phone: 409-238-3871 Fax: 409-238-0484 Email: CWMARTIN@DOW.COM Room: C3269 Participation: V

1047574	KENNETH A MAURITZ UNIV. OF SOUTHERN MISSISSIPPI DEPT. OF POLYMER SCIENCE HATTIESBURG, MS 39406-0076	Phone: 601-266-5595 Fax: 601-266-5504 Email: KMAURITZ@WHALE.ST.USM.EDU Room: M3283 Participation: S
1092269	MATTHEW MOFFITT MCGILL UNIVERSITY DEPT OF CHEMISTRY, #436 801 SHERBROOKE ST. WEST MONTREAL, QUEBEC H3A 2K6 CANADA	Phone: 514 398 2854 Fax: 514 398 3797 Email: BG32@RUSICB.MCGILL.CA Room: M3376 Participation: P
1050898	ROBERT B MOORE UNIVERSITY OF SOUTHERN MISSISSIPPI DEPT. OF POLYMER SCIENCE SOUTHERN STATION, BOX 10076 HATTIESBURG, MS 39406-0076 USA	Phone: 601-266-4480 Fax: 601 266 5504 Email: RBMOORE@WHALE.ST.USM.EDU Room: M3376 Participation: P
1050964	GRAINNE M MORAN DEPT OF CHEM C/O PINES GROUP UC BERKELEY BERKELEY, CA 84720	Phone: 512 642 2094 Fax: 512 642 9675 Email: GRAINNE@DIRAC.CCHEM.BERKEL Room: P3097 Participation: P
1088513	MARTIN MUSCHOL CENTER FOR MICROGRAVITY & MATERIALS UNIVERSITY OF ALABAMA RI-M65 HUNTSVILLE, AL 35899	Phone: 205-895-6964 Fax: 205-895-6791 Email: MUSCHOL@ATMOS.UAH.EDU Room: M3279 Participation: P
2052161	M MUTHUKUMAR UNIV OF MASSACHUSETTS POLYMER SCIENCE & ENGINEERING LEDERLE GRADUATE RESEARCH TOWER # AMHERST, MA 01003	Phone: 413-545-0433 Fax: 413-545-0082 Email: MUTHUKUM@ECS.UMASS.EDU Room: R13 Participation: S
1053287	DIEP NGUYEN BNL HFBR UPTON, NY 11973	Phone: 516-282-2329 Fax: 516-282-7408 Email: Room: P3295 Participation: P
1089493	MITSUO NISHIDA MCGILL UNIVERSITY DEPT. OF CHEMISTRY, OTTO MASS BLDG. 801 SHERBROOKE STREET WEST MONTREAL, PQ H3A 2K6	Phone: 514-398-2854 Fax: 514-398-3797 Email: NISHIDA@OMC.LAN.MCGILL.CA Room: C3372 Participation: A

1053800	JAAN NOOLANDI XEROX RESEARCH CENTER OF CANADA 2660 SPEAKMAN DRIVE MISSISSAUGA, ONTARIO L5K2L1 CANADA	Phone: 905-823-7091 Fax: 905-822-7022 Email: JNULA.XRCC@XEROX.COM Room: R18 Participation: S
1086885	EDWARD E PARSONAGE 3M COMPANY BUILDING 201-2N-19 ST PAUL, MN 55144	Phone: 612 736-7381 Fax: 612 733-0648 Email: EEPARSONAGE@MMM.COM Room: M3378 Participation: A
1086092	JOHN W PAUL DUPONT COMPANY P&P RESEARCH, B-10 PO BOX 1089 ORANGE, TX	Phone: 409 886-6221 Fax: 409 886-6124 Email: Room: OFF Participation: A
1056846	DENNIS G PEIFFER EXXON RESEARCH & ENG. CO. ROUTE 22 EAST-CLINTON TOWNSHIP ANNANDALE, NJ 08801	Phone: 908-730-2372 Fax: 908 730-2536 Email: Room: R18 Participation: S
1086814	KEITH R PLOWMAN DOW USA TEXAS OPERATIONS BUILDING B-2825 2301 BRAZOSPORT BOULEVARD FREEPORT, TX 77541-3257	Phone: Fax: Email: Room: C3270 Participation: S
1058456	WILLIAM S POMPLUN KIMBERLY-CLARK CORPORATION 2100 WINCHESTER RD. NEENAH, WI 54956	Phone: 414-721-5824 Fax: 414 721 4198 Email: Room: M3378 Participation: A
1086803	ROBERT K PRUD'HOMME PRINCETON UNIVERSITY DEPARTMENT OF CHEMICAL ENGINEERING PRINCETON, NJ 08544-5263	Phone: 609-258-4581 Fax: 609-258-0211 Email: PRUDHOMM@PHOENIX.PRINCET Room: R21 Participation: D
1059729	MIRIAM RAFAILOVICH STATE UNIVERSITY OF NEW YORK DEPT OF MATERIALS SCIENCE & ENGINEER STONY BROOK, NY 11794-2275	Phone: 516-632-8498 Fax: 516-632-8052 Email: MIRIAM.RAFAILOVICH@SUNYSB.E Room: P3196 Participation: S

1059852	MURALI RAJAGOPALAN TITLEIST AND FOOD-JOY WORLDWIDE P.O. BOX 965 333 BRIDGE STREET FAIRHAVEN, MA 02719	Phone: 508-979-3405 Fax: 508 979 3903 Email: Room: Participation: A
1059853	PADMAVATHY RAJAGOP BROWN UNIV CHEMISTRYD DEPT PROVIDENCE, RI 02912	Phone: 401-863-3267 Fax: 401-863-2594 Email: CH101001@BROWNV.M.BROWN.E Room: P3098 Participation: P
1060755	RICHARD A REGISTER PRINCETON UNIVERSITY CHEMICAL ENGINEERING ENGINEERING QUADRANGLE PRINCETON, NJ 08544	Phone: 609-258-4691 Fax: 609 258-0211 Email: REGISTER@PUCC.PRINCETON.ED Room: M3380 Participation: D
1061714	WILLIAM M RISEN BROWN UNIVERSITY DEPARTMENT OF CHEMISTRY BOXH PROVIDENCE, RI 02912	Phone: 401-863-2611 Fax: Email: WRISEN@BROWN.EDU Room: R21 Participation: P
1090381	RUDY RULKENS MAX-PLANCK INSTITUT FUR POLYMERFOR POSTFACH 3148 MAINZ, D55021 GERMANY	Phone: 496131379250/* Fax: 49 6131379 100 Email: RULKENS@MAX.MPIP-MAINZ.MPG. Room: M3380 Participation: p
1092849	MARIA RUTKOWSKA Gdynia Maritime Academy 83 MORSKA STR Gdynia, POLAND	Phone: 21 95 98 Fax: 48 58 206701 Email: Room: P3297 Participation: P
1087912	MICHAEL J SANSONE HOECHST CELANESE CORP 85 MORRIS AVE SUMMIT, NJ 07901	Phone: 908-522-7572 Fax: Email: Room: OFF Participation: A
1064665	ROBERT F SAVINELL CASE WESTERN RESERVE UNIVERSITY DEPT. OF CHEMICAL ENGINEERING CLEVELAND, OH 44106	Phone: 216-368-2728 Fax: 216-368-3016 Email: SAVINELL@ECHEM.CWRU.EDU Room: R21 Participation: S

1065283	SHULAMITH SCHLICK UNIVERSITY OF DETROIT MERCY DEPT. OF CHEMISTRY DETROIT, MI 48219-0900	Phone: 313-927-1012 Fax: 313-993-1144 Email: Room: P3392 Participation: P
1086798	MANFRED SCHMIDT UNIVERSITAT BAYREUTH PHYSIKALISCHE CHEMIE I POSTFACH 1012 51 BAYREUTH, W-8580 GERMANY	Phone: 49-921553395 Fax: 49-921553393 Email: MANFRED.SCHMIDT@UNI-BAYREU Room: C3271 Participation: S
1066412	MARIAN SEDLAK SLOVAK ACADEMY OF SCIENCES INSTITUTE OF EXPERIMENTAL PHYSICS WATSONOVA 47 KOSICE, 043 53 SLOVAKIA	Phone: 42-956224485 Fax: 42-9536320 Email: MARSED@CCSUN.TUKE.SK Room: Participation: A
1090238	EUGENE L SOKOLOV SUNY AT STONY BROOK DEPT OF CHEMISTRY STONY BROOK, NY 11794-3400	Phone: 516-632-7892 Fax: 516-632-7960 Email: ESOKOLOV@SBCHM.SUNY-(SB.E Room: M3277 Participation: P
1091247	JOACHIM P SPATZ UNIVERSITAT ULM ORGANISCHE CHEMIE III ALBERT-EINSTEIN-ALLEE ULM, D-83081 GERMANY	Phone: 49 731 5022884 Fax: 49 731 5022883 Email: JOACHIMSPATZ@PHYSIC.UNI.UC Room: M3278 Participation: P
1071428	ROBSON R STOREY THE UNIVERSITY OF SOUTHERN MISSISSIPPI DEPT. OF POLYMER SCIENCE SOUTHERN STATION, BOX 10076 HATTIESBURG, MS 39406 USA	Phone: 601-266-4879 Fax: 601 266 5635 Email: Room: M3283 Participation: P
1072896	MASAKO TAKASU KANAZAWA UNIVERSITY PHYSICS DEPT., KANAZAWA, 920-11 JAPAN	Phone: 81-76264-6057 Fax: 81-76264-5740 Email: TAKASU@HIWA003.S.KANAZAWA- Room: P3394 Participation: P
1074389	ANDREW TIPTON COVALENT ASSOCIATES, INC. 10 STATE STREET WOBURN, MA 01801	Phone: 617 938-1140 Fax: 617 938-1364 Email: Room: C3366 Participation: A

1074555	DONALD A TOMALIA MICHIGAN MOLECULAR INSTITUTE 1910 W. ST. ANDREWS ROAD MIDLAND, MI 48640	Phone: 517-832-5618 Fax: 517-832-5560 Email: Room: R22 Participation: S
1075238	GEORGE TSAGAROPOUL MCGILL UNIVERSITY DEPT OF CHEMISTRY 801 SHERBROOKE ST. WEST MONTREAL, QUEBEC H3A 2K6 CANADA	Phone: 514 398 2854 Fax: 514 398 3797 Email: TSAGARO@OMC.LAN.MCGILL.CA Room: Participation: A
1091151	WALTHER W TSCHARNUT BROOKHAVEN INSTRUMENTS CORP. 750 BLUE POINT ROAD HOLTSVILLE, NY 11742	Phone: 516-758-3200 Fax: 516-758-3255 Email: WALTHER@BIC.COM Room: C3366 Participation: A
1092587	FRIEDEL S VON GOELER UNIV OF MASS, POLYMER SCI + ENG. DEPT OF POLYMER SCI + ENG. SILVIO CONTE BLDG. AMHERST, MA 01003	Phone: 413 577 1212 Fax: 413 545 0082 Email: FRG@KAMA.PSE.UMASS.EDU Room: Participation: P
1079211	GIBERT E WEILL CNRS AND U L PASTEUR INSTITUT CH SADRON 6 RUE BOUSSINGAULT STRASBOURG, CEDEX 67083 FRANCE	Phone: 33-88414015 Fax: 33-88414099 Email: Room: R22 Participation: S
1079401	ROBERT A WEISS UNIVERSITY OF CONNECTICUT INSTITUTE OF MATERIALS SCIENCE 97 NORTH EAGLEVILLE ROAD STORRS, CT 06269-3136	Phone: 203-486-4623 Fax: 203-486-4745 Email: R.WEISS@IC.AC.UK Room: R22 Participation: S
1080474	CLAUDINE E WILLIAMS CNRS - LURE UNIVERSITE DE PARIS-SUD BATIMENT 209D ORSAY, F91405 FRANCE	Phone: 33-1-64-468121 Fax: 33-1-64-464148 Email: WILLIAMS@LURE.U-PSUD.FR Room: P3395 Participation: D
1092100	MARY C WINTERSGILL US NAVAL ACADEMY PHYSICS DEPT ANNAPOLIS, MD 21402 5026	Phone: 410 293 5508 Fax: 410 293 3729 Email: MWINTER@CHARLESTON.NADN.N Room: C3267 Participation: P

1086804	DIETRICH WOERMANN UNIVERSITAT ZU KOLN INSTITUT FUR PHYSIKALISCHE CHEMIE LEHRSTUHL I KOLN, 50939 GERMANY	Phone: 221-470-4458 Fax: 221-470-5104 Email: ACP07@RS1.RRZ.UNI-KOELN.DE Room: R23 Participation: S
1081623	JAMES L WORK ARMSTRONG WORLD INDUSTRIES P.O. BOX 3511, BUILDING PRODUCTS R&D 2500 COLUMBIA AVENUE LANCASTER, PA 17004	Phone: 717-396-5364 Fax: 717-396-5486 Email: Room: C3272 Participation: A
1086799	CHI WU THE CHINESE UNIVERSITY OF HONG KONG DEPARTMENT OF CHEMISTRY UNIVERSITY SCIENCE CENTER SHATIN, NT, HONG KONG CHINA	Phone: 852-6036106 Fax: 852-6035057 Email: CHIWU@CUHK.HK Room: C3368 Participation: S
1090237	CHUNHUNG WU SUNY UNIVERSITY AT STONY BROOK CHEMISTRY DEPT STONY BROOK, NY 11794	Phone: 516-632-7892 Fax: 516-632-7960 Email: CWU@SBCHEM.SUNYSB.EDU Room: C3370 Participation: A
1086808	DAN Q WU DUPONT EXPERIMENTAL STATION BUILDING 228 WILMINGTON, DE 19880-0228	Phone: 302-695-3516 Fax: 302-695-1351 Email: WUDG@ESVAX.DNET.DUPONT.CO Room: OFF Participation: S
1082087	GU XU MCMASTER UNIVERSITY DEPT. MATERIALS SCIENCE 1280 MAIN STREET, WEST HAMILTON, ONTARIO L8S 4L7 CANADA	Phone: 905 525 9140X Fax: 905 528 9295 Email: XUGU@MCMAIL.MCMASTER.CA Room: C3368 Participation: A
1086816	HOWARD L YEAGER UNIVERSITY OF CALGARY ACADEMIC AND PLANNING, ADM. BLDG., RM 2500 UNIVERSITY AVENUE DRIVE, N.W. CALGARY, ALBERTA T2N 1N4 CANADA	Phone: Fax: Email: Room: R23 Participation: S
1090240	FENGJI YEH SUNY UNIV AT STONY BROOK DEPT OF CHEM STONY BROOK, NY 11794-3400	Phone: 516-632-7892 Fax: 516-632-7960 Email: FYEH@SBCHM1.SUNYSB.EDU Room: C3370 Participation: P

1082709	ARUN YETHIRAJ UNIVERSITY OF WISCONSIN DEPT. OF CHEMISTRY 1101 UNIVERSITY AVENUE MADISON, WI 53706	Phone: 608-262-0258 Fax: 608-262-9918 Email: YETHIRAJ@CHEM.WISC.EDU Room: C3273 Participation: P
2083366	THOMAS A ZAWODZINSKI LOS ALAMOS NATIONAL LAB. MS D429 MST-11 LOS ALAMOS, NM 87545	Phone: 505-667-0925 Fax: 505-665-4292 Email: ZAWOD@LANL.GOV Room: R23 Participation: P
1092270	LIFENG ZHANG MCGILL UNIV, DEPT OF CHEM ROOM 446, 801 SHERBROOKE ST. W. MONTREAL, QUEBEC H3A 2K6 CANADA	Phone: 514 398 6924 Fax: 514 398 3797 Email: ZHANG@OMC.LAN.MCGILL.CA Room: C3374 Participation: P
1088523	PEIGUANG ZHOU UMASS. CHEM DEPT. ONE UNIVERSITY AVE LOWELL, MA 01854	Phone: 508-932-3828 Fax: 508-934-3013 Email: Room: M3280 Participation: P
1091150	JIANPING ZU BROOKHAVEN INSTRUMENTS CORP. 750 BLUE POINT ROAD HOLTSVILLE, NY 11742	Phone: 516-758-3200 Fax: 516-758-3255 Email: LILY@BIC.COM Room: P3397 Participation: A